

Complete and send this form, together with applicable fee(s), to: **Mail** **5-13-04** **Mail Stop ISS, FEE** **Express Mail Mailing**  
**Commissioner for Patents** **Label No. EV399914177US**  
**P.O. Box 1450** **Alexandria, Virginia 22313-1450**  
**or Fax** **(703) 746-4000**

**INSTRUCTIONS:** This form should be used for transmitting the **ISSUE FEE** and **PUBLICATION FEE** (if required). Blocks 1 through 4 should be completed with appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" maintenance fee notifications.

**CURRENT CORRESPONDENCE ADDRESS** (Note: Legibly mark-up with any corrections or use Block 1)

Note: A certificate of mailing can only be used for domestic mailings of Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

021323 7590 03/12/2004  
**TESTA, HURWITZ & THIBEAULT, LLP**  
**HIGH STREET TOWER**  
**125 HIGH STREET**  
**BOSTON, MA 02110**



**Certificate of Mailing or Transmission**

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO, on the date indicated below.

(Depositor's name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/002,909	11/02/2001	Ping Yuan	MUL-003	5064

**TITLE OF INVENTION:** SHALLOW-MESA STRUCTURE FOR PLANAR PIN AND APD PHOTODIODES

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	<del>\$665</del> \$1330	\$300	<del>\$965</del> \$1630	06/14/2004

EXAMINER	ART UNIT	CLASS-SUBCLASS
NGUYEN, DILINH P	2814	257-186000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

- ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.
- ☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.

2. For printing on the patent front page, list (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

1 Testa, Hurwitz & Thibault, LLP  
2 125 High St.  
3 Boston, MA 02110

**3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT** (print or type)

**PLEASE NOTE:** Unless an assignee is identified below, no assignee data will appear on the patent. Inclusion of assignee data is only appropriate when an assignment has been previously submitted to the USPTO or is being submitted under separate cover. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

(B) RESIDENCE: (CITY AND STATE OR COUNTRY)

**MULTIPLEX, INC.**

**5000 Hadley Road, South Plainfield, NJ 07080**

Please check the appropriate assignee category or categories (will not be printed on the patent): ☐ individual ☒ corporation or other private group entity ☐ government

4a. The following fee(s) are enclosed:

- ☒ Issue Fee
- ☒ Publication Fee
- ☐ Advance Order - # of Copies \_\_\_\_\_

4b. Payment of Fee(s):

- ☒ A check in the amount of the fee(s) is enclosed.
- ☐ Payment by credit card. Form PTO-2038 is attached.
- ☐ The Director is hereby authorized to charge the required fee(s), or credit any overpayment Deposit Account Number \_\_\_\_\_ (enclose an extra copy of this form).

Director for Patents is requested to apply the Issue Fee and Publication Fee (if any) or to re-apply any previously paid issue fee to the application identified above.

(Authorized Signature)

(Date) 5/12/04

**NOTE:** The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

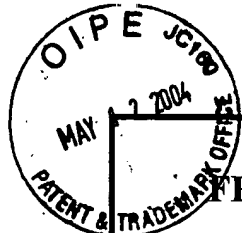
This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Alexandria, Virginia 22313-1450. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS.** SEND TO: Commissioner for Patents, Alexandria, Virginia 22313-1450.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

05/14/2004 HBERHE1 00000009 10002909

01 FC:1501  
02 FC:1504

1330.00 OP  
300.00 OP



Express Mail Mailing Label No. EV399914177US

FEE TRANSMITTAL  
FY 2004

Complete if Known

Application Serial Number	10/002,909
Filing Date	November 2, 2001
First Named Inventor	Yuan
Group Art Unit	2814
Examiner Name	Nguyen, Dilinh P.
Attorney Docket No.	MUL-003

METHOD OF PAYMENT		FEE CALCULATION (continued)																																																																																					
1. <input checked="" type="checkbox"/> Payment Enclosed: <input checked="" type="checkbox"/> Check <input type="checkbox"/> Money Order <input type="checkbox"/> Other		3. ADDITIONAL FEES																																																																																					
2. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to credit or charge any fee indicated below for this submission to Deposit Account No. 20-0531. <input type="checkbox"/> Required Fees (copy of this sheet enclosed). <input checked="" type="checkbox"/> Additional fee required under 37 CFR 1.16 and 1.17. <input checked="" type="checkbox"/> Overpayment Credit.		<table><thead><tr><th>Large Entity Fee (\$)</th><th>Small Entity Fee (\$)</th><th>Fee Description</th><th>Fee Paid</th></tr></thead><tbody><tr><td>130</td><td>65</td><td>Surcharge - late filing fee or oath</td><td></td></tr><tr><td>50</td><td>25</td><td>Surcharge - late provisional filing fee or cover sheet</td><td></td></tr><tr><td>130</td><td>130</td><td>Non-English specification</td><td></td></tr><tr><td>2,520</td><td>2,520</td><td>Request for ex parte reexamination</td><td></td></tr><tr><td>110</td><td>55</td><td>Extension for reply within first month</td><td></td></tr><tr><td>420</td><td>210</td><td>Extension for reply within second month</td><td></td></tr><tr><td>950</td><td>475</td><td>Extension for reply within third month</td><td></td></tr><tr><td>1480</td><td>740</td><td>Extension for reply within fourth month</td><td></td></tr><tr><td>2010</td><td>1005</td><td>Extension for reply within fifth month</td><td></td></tr><tr><td>330</td><td>165</td><td>Notice of Appeal</td><td></td></tr><tr><td>330</td><td>165</td><td>Filing a brief in support of an appeal</td><td></td></tr><tr><td>290</td><td>145</td><td>Request for oral hearing</td><td></td></tr><tr><td>130</td><td>130</td><td>Petitions to the Commissioner</td><td></td></tr><tr><td>180</td><td>180</td><td>Submission of Information Disclosure Statement</td><td></td></tr><tr><td>770</td><td>385</td><td>Filing a submission after final rejection (37 CFR 1.129(a))</td><td></td></tr><tr><td>770</td><td>385</td><td>For each additional invention to be examined (37 CFR 1.129(b))</td><td></td></tr><tr><td>100</td><td>100</td><td>Certificate of Correction for applicant's error</td><td></td></tr><tr><td>110</td><td>55</td><td>Submission of Terminal Disclaimer</td><td></td></tr><tr><td>Other fee (Specify)</td><td>Issue Fee</td><td></td><td>1330.000</td></tr><tr><td>Other fee (Specify)</td><td>Publication Fee</td><td></td><td>300.00</td></tr></tbody></table>		Large Entity Fee (\$)	Small Entity Fee (\$)	Fee Description	Fee Paid	130	65	Surcharge - late filing fee or oath		50	25	Surcharge - late provisional filing fee or cover sheet		130	130	Non-English specification		2,520	2,520	Request for ex parte reexamination		110	55	Extension for reply within first month		420	210	Extension for reply within second month		950	475	Extension for reply within third month		1480	740	Extension for reply within fourth month		2010	1005	Extension for reply within fifth month		330	165	Notice of Appeal		330	165	Filing a brief in support of an appeal		290	145	Request for oral hearing		130	130	Petitions to the Commissioner		180	180	Submission of Information Disclosure Statement		770	385	Filing a submission after final rejection (37 CFR 1.129(a))		770	385	For each additional invention to be examined (37 CFR 1.129(b))		100	100	Certificate of Correction for applicant's error		110	55	Submission of Terminal Disclaimer		Other fee (Specify)	Issue Fee		1330.000	Other fee (Specify)	Publication Fee		300.00
Large Entity Fee (\$)	Small Entity Fee (\$)	Fee Description	Fee Paid																																																																																				
130	65	Surcharge - late filing fee or oath																																																																																					
50	25	Surcharge - late provisional filing fee or cover sheet																																																																																					
130	130	Non-English specification																																																																																					
2,520	2,520	Request for ex parte reexamination																																																																																					
110	55	Extension for reply within first month																																																																																					
420	210	Extension for reply within second month																																																																																					
950	475	Extension for reply within third month																																																																																					
1480	740	Extension for reply within fourth month																																																																																					
2010	1005	Extension for reply within fifth month																																																																																					
330	165	Notice of Appeal																																																																																					
330	165	Filing a brief in support of an appeal																																																																																					
290	145	Request for oral hearing																																																																																					
130	130	Petitions to the Commissioner																																																																																					
180	180	Submission of Information Disclosure Statement																																																																																					
770	385	Filing a submission after final rejection (37 CFR 1.129(a))																																																																																					
770	385	For each additional invention to be examined (37 CFR 1.129(b))																																																																																					
100	100	Certificate of Correction for applicant's error																																																																																					
110	55	Submission of Terminal Disclaimer																																																																																					
Other fee (Specify)	Issue Fee		1330.000																																																																																				
Other fee (Specify)	Publication Fee		300.00																																																																																				
3. <input type="checkbox"/> Applicant claims small entity status.																																																																																							
FEE CALCULATION																																																																																							
1. FILING FEE																																																																																							
<table><thead><tr><th>Large Entity Fee (\$)</th><th>Fee Description</th><th>Fee Paid</th></tr></thead><tbody><tr><td>770</td><td>Utility filing fee</td><td></td></tr><tr><td>340</td><td>Design filing fee</td><td></td></tr><tr><td>160</td><td>Provisional filing fee</td><td></td></tr></tbody></table>		Large Entity Fee (\$)	Fee Description	Fee Paid	770	Utility filing fee		340	Design filing fee		160	Provisional filing fee																																																																											
Large Entity Fee (\$)	Fee Description	Fee Paid																																																																																					
770	Utility filing fee																																																																																						
340	Design filing fee																																																																																						
160	Provisional filing fee																																																																																						
<table><thead><tr><th></th><th>Number Filed</th><th>Number Extra</th><th>Rate</th><th>Amount</th></tr></thead><tbody><tr><td>Total Claims</td><td>- 20 =</td><td></td><td>x \$ 18.00 =</td><td></td></tr><tr><td>Independent Claims</td><td>- 3 =</td><td></td><td>x \$ 86.00 =</td><td></td></tr><tr><td><input type="checkbox"/> Multiple Dependent Claim(s), if any</td><td></td><td></td><td>\$290.00 =</td><td></td></tr><tr><td colspan="4">TOTAL:</td><td></td></tr><tr><td colspan="4">SMALL ENTITY DISCOUNT:</td><td></td></tr><tr><td colspan="4">SUBTOTAL (1) (\$)</td><td></td></tr></tbody></table>			Number Filed	Number Extra	Rate	Amount	Total Claims	- 20 =		x \$ 18.00 =		Independent Claims	- 3 =		x \$ 86.00 =		<input type="checkbox"/> Multiple Dependent Claim(s), if any			\$290.00 =		TOTAL:					SMALL ENTITY DISCOUNT:					SUBTOTAL (1) (\$)																																																							
	Number Filed	Number Extra	Rate	Amount																																																																																			
Total Claims	- 20 =		x \$ 18.00 =																																																																																				
Independent Claims	- 3 =		x \$ 86.00 =																																																																																				
<input type="checkbox"/> Multiple Dependent Claim(s), if any			\$290.00 =																																																																																				
TOTAL:																																																																																							
SMALL ENTITY DISCOUNT:																																																																																							
SUBTOTAL (1) (\$)																																																																																							
2. AMENDMENT CLAIM FEES																																																																																							
<table><thead><tr><th>Claims Remaining After Amend.</th><th>Highest No. Previously Paid For</th><th>Present Extra</th><th>Rate</th><th>Fee Paid</th></tr></thead><tbody><tr><td>Total</td><td>-</td><td>=</td><td>x \$ 18.00 =</td><td></td></tr><tr><td>Indep.</td><td>-</td><td>=</td><td>x \$ 86.00 =</td><td></td></tr><tr><td><input type="checkbox"/> First Presentation of Multiple Dep. Claim</td><td></td><td></td><td>+ \$290.00 =</td><td></td></tr><tr><td colspan="4">TOTAL:</td><td>(\$)</td></tr><tr><td colspan="4">SMALL ENTITY DISCOUNT:</td><td>(\$)</td></tr><tr><td colspan="4">SUBTOTAL (2) (\$)</td><td>0.00</td></tr></tbody></table>		Claims Remaining After Amend.	Highest No. Previously Paid For	Present Extra	Rate	Fee Paid	Total	-	=	x \$ 18.00 =		Indep.	-	=	x \$ 86.00 =		<input type="checkbox"/> First Presentation of Multiple Dep. Claim			+ \$290.00 =		TOTAL:				(\$)	SMALL ENTITY DISCOUNT:				(\$)	SUBTOTAL (2) (\$)				0.00																																																			
Claims Remaining After Amend.	Highest No. Previously Paid For	Present Extra	Rate	Fee Paid																																																																																			
Total	-	=	x \$ 18.00 =																																																																																				
Indep.	-	=	x \$ 86.00 =																																																																																				
<input type="checkbox"/> First Presentation of Multiple Dep. Claim			+ \$290.00 =																																																																																				
TOTAL:				(\$)																																																																																			
SMALL ENTITY DISCOUNT:				(\$)																																																																																			
SUBTOTAL (2) (\$)				0.00																																																																																			
CORRESPONDENCE ADDRESS		SIGNATURE BLOCK																																																																																					
Direct all correspondence to: Patent Administrator Testa, Hurwitz & Thibault, LLP High Street Tower-125 High Street Boston, MA 02110 Tel. No.: (617) 248-7000 Fax No.: (617) 248-7100		Respectfully submitted,  James E. Fajkowski Attorney for the Applicant Testa, Hurwitz & Thibault, LLP High Street Tower-125 High Street Boston, MA 02110 Date: May 12, 2004 Reg. No.: 54,089 Tel. No.: (617) 310-8414 Fax No.: (617) 248-7100																																																																																					